METHOD 2: PERCENT GLAZING CALCULATION WORKSHEET

Name:					Occu	pation:_				
Project Addres	s:							Date:		
-										
WALL AREA										
Unburried Bas	sement ¹	Height	x Width	= Area, ft ²	Second	I Floor		Height	x Width	= Area, ft ²
Wall 1				1 1 00, 11	Wall 1					
Wall 2					Wall 2					
Vall 3					Wall 3					
Vall 4					Wall 4	Wall 4				
Vall 5				<u> </u>	Wall 5					
First Floor					· —	aneous			T	
Vall 1					Attic knee					
Wall 2					Gable en					
Wall 3					Dormer w	ralis				
Vall 4 Vall 5					Other:					
vali 5			Subtotal		Other.				L Subtotal	
Do not include ba	sement wa	lls greater tha		urade I	_				Oublotai	
or crawl space wa	alls.	•								
When gable end	walls enclos	se a heated s	paces.		Total:		+		一 = 厂	ft
					TOtal.					
21 A 71110 A D 5	- 4 (14/15)	2014/0 - 20	000 ² AND		- 0\					
GLAZING ARE	A (WINL	DOWS, DO	ORS-, ANL	SKYLIGH	18)					
Basement ¹	Height	t x Width	x Number	= Area, ft ²	Second	l Floor	Height	x Width	x Number	= Area, ft
Vindow 1					Window 1					
Vindow 2					Window 2					
Vindow 3					Window 3	}				
Door 1					Window 4					
Door 2					Door 1					
First Floor				<u> </u>	Third F	loor				
Nindow 1					Window 1					
Vindow 2					Window 2					
Window 3					Window 3					
Nindow 4					1 .	aneous	1	1	T	
Window 5					Dormer w					
Door 1					Dormer w					
Door 2					Skylight 1					
Door 3					Skylight 2				0.14.4.1	
When basement i	is hoated o	r coolod	Subtotal		_				Subtotal	L .
Glass area of doc	ors only; use	e entire door a	area if							
glass area is grea					Total:	_	+		一 = 厂	ft
					rotai.		' '			- 10
PERCENT GL	AZING									
		Total	al Wall Area							
Total Glazing		-	ui vvali Alta	7,400	_		7 0/ 1	-Doros-	of Clasics	
		+		x 100 =]% ←	-rercen	nt Glazing	J
REQUIRED U-	FACTOR	RAND R-V	ALUES (fro	m Tables 7	A or 7B)					
			Loc	cation			Value]	
		Glazing U-f								
				ide air R-va	lue					
			ed wall R-va							
en en				aces R-valu	ıe					
ist updated: 11/5/03					Buried					
С	(Joncrete/m	asonry wall	R-Maille H	Above grade				1	
date	5	Slab-on-gra	de R-value		U				1	
st up			e wall R-val	ue					1	
ä		- 1 0							i	

Last updated

TABLE 7A - U-FACTOR AND R-VALUES FOR BUILDINGS WITH BASEMENTS

TOTAL TO THE TOTAL TOTAL TOTAL DELICATION OF THE TOTAL									
ulazillu	Glazing	Ceiling R-value ³	Wood framed wall R-value	Floor over unheated space R-value	Concrete, wall R-		Slab-on- grade R-value ¹	Crawl space	
					Buried	Above grade		wall R-value ²	
0 0	0.55	20	12	1 🖺	0		2		
0 - 8	0.55	30	13	15	8	12	2	12	
8 – 12	0.50	38	14	19	9	12	5	16	
12 - 15	0.45	38	16	19	9	13	6	17	
15 - 18	0.37	38	15	19	9	13	6	16	
18 - 20	0.37	38	16	19	9	13	6	16	
20 – 25	0.33	38	19	19	9	16	6	17	

TABLE 7B - U-FACTOR AND R-VALUES FOR BUILDINGS WITH NO BASEMENTS

Percent glazing	Glazing U-factor	Ceiling R-value ³	Wood framed wall R-value	Floor over unheated space R-value	Slab-on- grade R-value ¹	Crawl space wall R-value ²
0 - 8	0.87	30	11	19	4	13
8 - 12	0.67	30	11	19	4	13
12 - 16	0.50	30	11	19	4	13
16 - 20	0.42	30	11	19	4	13
20 - 24	0.36	30	11	19	4	13
24 - 27	0.36	30	13	19	4	13
27 - 32	0.36	30	19	19	4	13

Add R-2 to table value if concrete slab is heated by the embedment of a heating device; see Figure 1 for insulation placement requirements.

DON'T FORGET:

- Do not include basement walls if the basement is NOT heated or cooled. In those cases, the first floor is a floor over an unheated space.
- Doors with glass area greater than 50% of the total door area is considered a glazing area.
- Kneewalls, skylight shaft walls, and dormer walls must be included in wall area.
- Rim joists, the vertical area between floors, is to be included in wall area.
- Floors over outside air, such as floors supported by posts, overhangs, and floors of bay windows, must be insulated equal to ceilings.
- Walls between the house and garage must be included in wall area.
- The triangular gable end walls separating a heated or cooled space, such as in a cathedral ceiling condition or habitable attic space, must be included in wall area.

FIGURE 1: SLAB-ON-GRADE INSULATION REQUIREMENTS

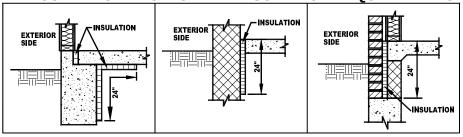
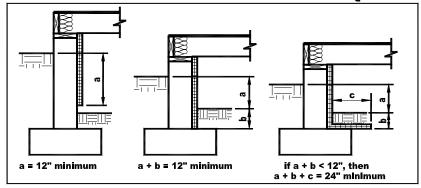


FIGURE 2: CRAWL SPACE WALL INSULATION REQUIREMENTS



² See Figure 2 for placement requirements.

³ Use this value for floors over outside air such as floors supported by posts, overhangs, and floors of bay windows.

Basement walls are considered above grade when 50% or more of its area is above grade.